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ABSTRACT

This booklet contains the practice tests for the Sixth-grade Ohio Proficiency Tests. Student work on these practice tests helps the teacher evaluate how well the student understands the subjects of writing, reading, mathematics, citizenship, and science. The writing test consists of two writing tasks based on one stimulus passage, and the reading, mathematics, citizenship, and science tests contain multiple-choice, short-answer, and extended-response test items. The introduction presents sample questions for these item types. The booklet then presents brief practice tests with directions and illustrations containing: (1) 2 writing exercises; (2) 18 reading questions; (3) 23 mathematics questions; (4) 23 citizenship questions; and (5) 23 science questions. (SLD)

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Ohio Proficiency Tests for Grade 6

Practice Test Booklet

Writing
Reading
Mathematics
Citizenship
Science

TM 025970

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Ohio Department of Education
Columbus, Ohio
1995

Acknowledgments

Writing

From *The Seven Treasure Hunts*, by Betsy Byars. Copyright © 1991. Published by HarperCollins. Reprinted by permission of the publisher.

Reading

Selection 1

From *The Baby Grand, the Moon in July, and Me*, by Joyce Annette Barnes. Copyright © 1994 by Joyce Annette Barnes. Used by permission of Dial Books for Young Readers, a division of Penguin Books USA Inc.

Selection 2

"Comfortable Old Chair" by Karla Kuskin. Copyright © 1992 by Karla Kuskin. Reprinted by permission of Share Our Strength. Taken from *Home*, edited by Michael J. Rosen. Copyright © 1992 by HarperCollins Publishers.

Selection 3

"Icebergs" from *Dolphin Log*, November, 1989. Copyright © 1989 by the Cousteau Society, Inc.

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Introduction

This booklet contains the practice tests for the Sixth-grade Ohio Proficiency Tests. Your work on these tests will help your teacher know how well you understand the subjects of writing, reading, mathematics, citizenship, and science.

The writing test consists of two writing tasks. The reading, mathematics, citizenship, and science tests consist of three different types of questions: multiple choice, short answer, and extended response.

Sample Questions

To help you understand how to answer the test questions, sample items have been included here. They show you the different types of questions and how to mark or write your answers in your Answer Booklet. **All of your answers must be marked or written in your Answer Booklet.**

Multiple-Choice Sample Question (Mathematics)

For this type of question you will select the answer and fill in the correct circle in your Answer Booklet.

1. Larry was following a recipe to make a dessert. The recipe called for one 8-oz can of pineapple. By mistake, Larry bought a 1-lb 3-oz can of pineapple. How much pineapple did he have left after he made the dessert?

   A. 3 oz

   B. 5 oz

   C. 7 oz

   D. 11 oz

For this sample question, the answer selected was D and, therefore, the D circle was filled in on the Answer Booklet.

Short-Answer Sample Question (Citizenship)

For this type of question you will write a short answer in your Answer Booklet. Your answer may consist of a word or words, one or two sentences, a drawing or diagram, or items to be organized.

Directions: Read the following paragraph to answer number 2.

Benjamin Franklin was a political leader of the United States during the Revolutionary period. He also was a famous inventor (bifocal eyeglasses, a heating stove, and the lightning rod), scientist (experimented with electricity and charted ocean currents), author (*Poor Richard's Almanack*), and newspaper publisher (*The Pennsylvania Gazette*).

2. Choose two of these or other achievements by Franklin and tell how each has changed how the American people live today.

The sample question asked for written explanations of how two of Ben Franklin's achievements have affected how American people live. Look at your Answer Booklet.

Extended-Response Sample Question (Science)

For this type of question you will write a more thoughtful, sometimes longer answer or do a detailed drawing or diagram in your Answer Booklet.

3. Scientists in Brazil have found a type of tree not seen before. In studying this tree, scientists notice the following:

   - Howler monkeys that have a certain disease will eat the leaves of this tree. These monkeys appear to recover from the disease after eating the leaves.
   - A type of butterfly seen only in the same region lays its eggs on this tree's flowers. This type of butterfly does not lay its eggs anywhere else.

Think about what might happen if the environment were harmed so that no new trees of this type could grow. Describe the effects that harm to this environment might have on the trees that grow there, on the animals of the region, and on people.

The response to this sample question is longer and more thoughtful than the answer to the short-answer question. Look at your Answer Booklet.

Stop

Do not turn the page.

Writing

Directions: Follow along as a passage from *The Seven Treasure Hunts* is read aloud to you.

From *The Seven Treasure Hunts*, by Betsy Byars.

Last Saturday Goat and I hid treasures for each other to find. My treasure was seven pennies, a knife with one blade, a decal, and a balloon, all stuffed in a Band-Aid box. I buried it in a pot of flowers on my front porch.

Then I made a map that was very tricky. It would lead Goat all over the neighborhood. And not only was it tricky, it looked like a real pirate map. I had drawn it on brown paper and burned the edges. I was proud of that map.

After I finished, I went to the corner where Goat and I had planned to meet. Goat had probably been busy hiding a treasure for me and making a map, and he looked pleased too. He had a big smile on his face.

"Here you go, Goat my Pal," I said.

I handed him my map. He handed me a dirty scrap of paper.

"What's this?" I asked.

"Clues."

"Clues? You were supposed to draw a map." I looked at the piece of paper. It was so little, it was hard to read.

Finally I made it out:

4 to the right. 6 to the left. 7 across. 1 ahead. 2 sideways. Look up.

"What's this, Goat?" I asked again, but Goat was already running down the sidewalk.

It looked to me as if he were heading straight for my house, straight for the pot of flowers.

4 to the right. Quickly I took four steps to the right. *6 to the left.* I did that. *7 across, 1 ahead, 2 sideways.*

I looked up. All I could see were some clouds in the sky.

"Goat!" I ran after him. When I got to my house, he was standing on the porch. He was pulling my mom's pansies out of the pot, spilling the dirt all over.

He reached in and came up with the Band-Aid box.

"Ta-daaa!" he said.

"Goat, you didn't even use the map. I spent all morning on that map!"

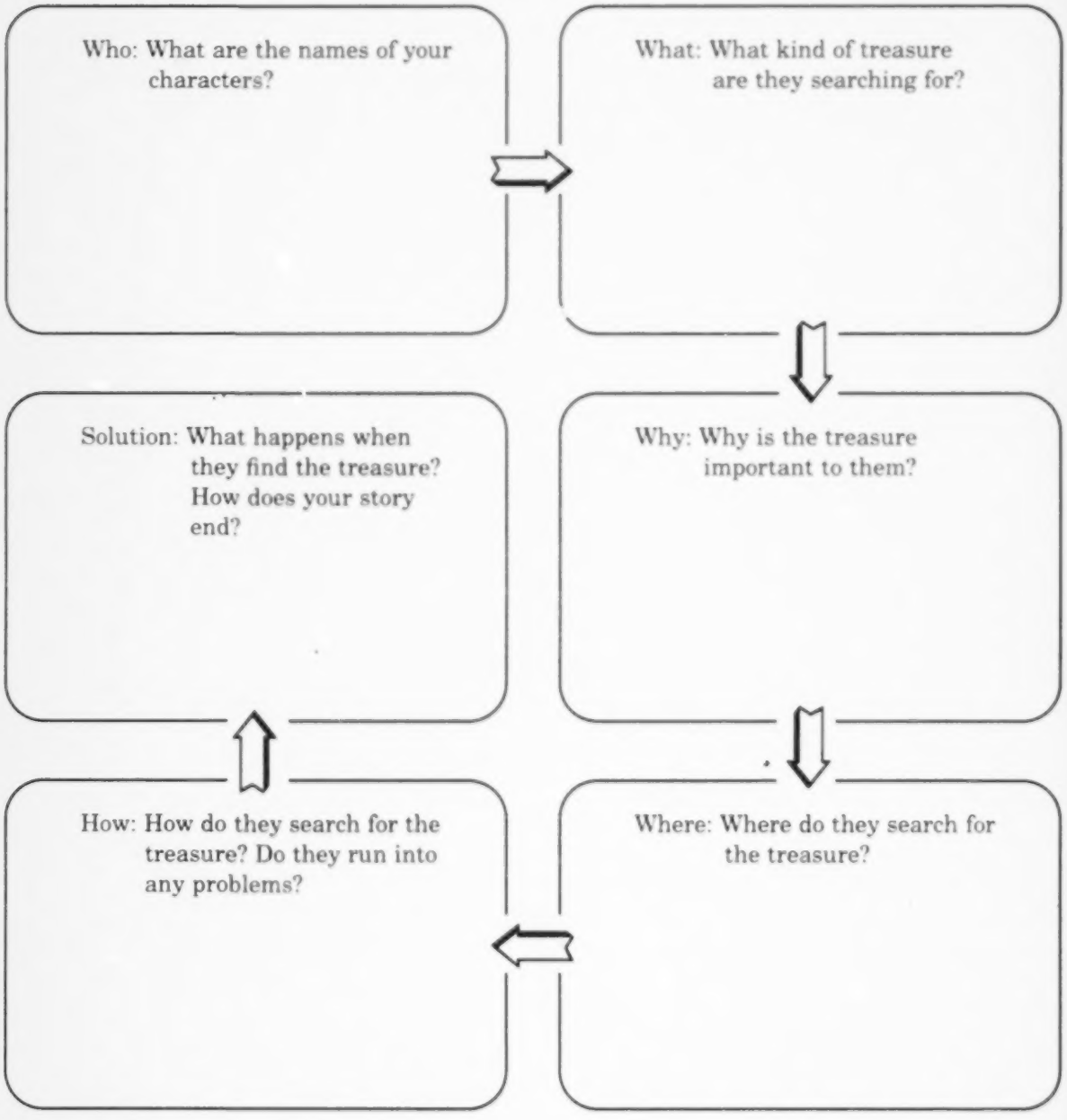
"I didn't need it, " Goat said. "I saw a piece of pansy on your watch — look, right there. Then I knew — you hid it in the old pansy pot."

Today you will use the ideas in the story to help you complete two writing activities. For the first activity, you will write a fictional story about a treasure hunt. In the story you will describe the treasure and the people who search for it. You will tell what happens to the people as they search for the treasure. For the second activity, you will imagine that you have hidden a treasure somewhere. You will write a set of directions telling how to find the treasure.

The pre-writing work you will do will help you get ideas for your story and your set of directions. You are not allowed to use a dictionary or a thesaurus in your pre-writing. Spell the words the best way you know. The pre-writing work will not be scored.

Pre-writing

Directions: The headings in the boxes will help you with ideas for your story about a treasure hunt. Write your ideas in the space provided.


Who: What are the names of your characters?
What: What kind of treasure are they searching for?
Why: Why is the treasure important to them?
Where: Where do they search for the treasure?
How: How do they search for the treasure? Do they run into any problems?
Solution: What happens when they find the treasure? How does your story end?

Pre-writing

Directions: The headings below will help you with ideas for your set of directions telling how to find a hidden treasure. Write your ideas on the lines provided.

Where should a treasure-hunter start to look for your treasure?

_____

_____

Where is the treasure hidden? Will the treasure-hunter need to dig or look in a special way?

_____

_____

What sorts of landmarks or clues will the treasure-hunter see along the way? List them in order on the lines below.

1. _____
2. _____
3. _____
4. _____

In the space below, draw a map that leads to your hidden treasure.

Exercise A:

Fictional Narrative – Story

Directions: For Exercise A, you will write a fictional story about a treasure hunt. In the story you will describe the treasure and the people who search for it. You will tell what happens to the people as they search for the treasure. You may use the information you wrote on page 6. Be sure to use words that make your meaning clear. Be sure that your story is well organized and complete. You will write your story **in Section A of your answer booklet**.

The writing you do for Exercise A will be scored. Look at the box below. The checklist box shows what your writing must have to get your best score.

You will use your pencil to write your story. You may erase and cross out or make any other editing changes in your work. You may not use a dictionary or thesaurus in your writing. Spell the words the best way you know. Remember that writers often make changes as they work.

Checklist

I will earn my best score if:

My story tells about people who are searching for a treasure.

My story gives the names of my characters.

My story describes the treasure.

My story tells what happens as the people search for the treasure.

My story tells why the treasure is important.

My story tells what happens to the treasure.

My story is well organized and complete.

I use words that make my meaning clear. I do not use the same words over and over.

I try to spell the words correctly.

I try to use correct punctuation and capitalization.

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Exercise B:

Set of Directions

Directions: For Exercise B, you will imagine that you have hidden a treasure somewhere. You will write a set of directions telling a treasure-hunter how to find the treasure. You may use the information you wrote on page 7. Be sure to tell the treasure-hunter what sorts of things he or she will see while looking for the treasure, and to give any special instructions needed to find the treasure. Be sure to use words that make your meaning clear. Be sure that your directions are well organized and complete. You will write your set of directions **in Section B of your answer booklet**.

The writing you do for Exercise B will be scored. Look at the box below. The checklist box shows what your writing must have to get your best score.

You will use your pencil to write your set of directions. You may erase and cross out or make any other editing changes in your work. You may not use a dictionary or thesaurus in your work. Spell the words the best way you know. Remember that writers often make changes as they work.

Checklist

I will earn my best score if:

My directions tell how to find the hidden treasure.

My directions include the steps for finding the treasure in the order they must be followed.

My directions have all the facts that are needed to find the treasure.

My directions are well organized and complete.

I use words that make my meaning clear. I do not use the same words over and over.

I try to spell the words correctly.

I try to use correct punctuation and capitalization.

Stop

Do not turn the page.

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Reading

Directions: Read the selection and answer the questions.

Annie's brother Matty dreams of becoming a jazz musician. He buys a baby grand piano and has it delivered. Annie listens politely as Matty tells how special the piano is. Then she asks if she might play.

"Now can I play it?" I ask.

Matty thinks a long moment. "Just wait, Annie. Be cool now." He inches me closer, careful that I don't make any sudden moves. "This," he preaches, "ain't no ordinary piano, 'cause I ain't no ordinary piano player. Let me tell you a few things about a grand piano."

He points inside. "See these. Bass strings, strung diagonally over the sound board at just the right tension." He touches a key. "Listen. Perfect pitch. Me and this piano belong together."

"I hear it," I say, impatient.

"Annie, you don't even know what you're listening for." He sits down on the bench. "Now, listen." He starts playing. I want to remind him that I'm the one who wanted to play, but I keep quiet. He plays a few chords and does some more fancy finger work up the treble keys, then folds his hands and looks at me. "You gotta have the proper appreciation for an instrument like this." He goes on and on, and I try to look interested. But all I want to do is play it!

"It's not like I'll never let you play it, Annie. But what you have to understand is that this piano is for serious artists. Like me. Not people like you who just play because somebody makes you. If Mama didn't want you to play the piano so bad, you'd never even look at one."

"Yes, I would," I insist, but I know there's some truth in what he says. I like piano music. I just don't like the hours of my life I have to spend practicing. I'd rather be out playing, or reading, or making up stories myself. But I know how much my mother loves to hear me play, how proud she is to sit and listen to me. She's always going on about her aunt Bettye she had when she was little. "She used to give performances in her parlor. That's what we called the living room then. Oh, it was beautiful music. Brahms, Chopin. She could play them all." Mama's face would be all dreamy saying this, then she'd get this regretful look. "I wanted to play, but there was no time for it. Always something else to get done."

Anyway, whenever she gets like this, she reminds me how much music can lift her spirits. How it was all worth it to have two children who could play piano, even if she couldn't. Truth is, I'm nowhere near as good as Matty, but I try, for her.

"If you're gonna be great at something, Annie, you gotta want it really bad. More than that. I don't play just because I want to," Matty says. "I play 'cause I have to. It's part of me. You understand what I'm saying?"

I don't actually, but then I hardly ever understand my big brother. But I do know how much he loves to play. He doesn't have to say a word for me to know that. You can see it. You can hear it.

So, when he launches into one of his jazz pieces, I know he's not gonna stop playing for a while. "This is one I wrote myself, Annie. It's called 'The Living Is Easy.' "

I pull out one of the lawn chairs and unfold it fully, stretch out on it in the garage, and just listen.

from *The Baby Grand, the Moon in July, and Me* by Joyce Annette Barnes

1. Which of these sentences best summarizes this story?

   A. One family is composed of several musicians.

   B. A boy tries to explain to his sister how he feels about music.

   C. A girl wants to play a piano, but her brother won't let her.

   D. A mother finds a source of pride in her children.

2. Why does Annie study piano?

   A. Because she knows she has talent

   B. Because she wants to be rich and famous

   C. Because of her mother's insistence

   D. Because she wants to compete with Matty

3. Write your answer to the following in your **Answer Booklet**.

   What is Annie's attitude toward her brother? Support your answer with references to the story.

4. How does Matty contrast himself to Annie?

   A. He loves music much more deeply.

   B. He is smarter than she is.

   C. He understands their mother better.

   D. He owns a piano and Annie doesn't.

5. Which of the following is most important to the author's purpose in this story?

   A. Information about the mother's aunt Bettye, who played the piano

   B. The contrast between Matty's and Annie's attitudes toward music

   C. Information about the features of the piano Matty bought

   D. A description of how well Matty can play the piano

6. Write your answer to the following in your **Answer Booklet**.

   Some stories emphasize plot, or what happens. Others stress character, using action and speech to reveal what characters are like. Tell which you think this story stresses—plot or character. Tell whether you think it does so successfully. Support your answer with references from the story.

Directions: Read the selection and answer the questions.

Comfortable Old Chair

by Karla Kuskin

A bird has a nest
A fox has a lair
A den is home
If you're a bear.
I have a comfortable old chair.

Soft pillowed blue,
a flowered cloud.
The perfect place to read aloud
to myself or silently
letting long words run over me,
letting the stories I have read
make moving pictures in my head.
New chairs are nice
but mine is best.
My spot to think in
brood in
rest
to plot in
dream in, many dreams,
to scheme a few outlandish schemes in.
Kings need crowns to be the king
but me
I can be anything
any person
anywhere
if I just have my book and chair.

17

7. How does the poet compare herself to the animals she mentions in the poem?

   A. They are all dreamers.

   B. They are all seeking a goal.

   C. They all have their own special place.

   D. They are all lonely for a friend.

8. What idea can you get from this poem?

   A. The poet wants to be a king.

   B. The poet is restless and discontented.

   C. The poet has an active imagination.

   D. The poet has many possessions.

9. Write your answer to the following in your **Answer Booklet**.

   Could you feel affection for a piece of furniture, as the poet does? Explain why or why not.

10. Which of the following books would most likely contain poems like this one?

    A. *Poems for Dreamers*

    B. *Distant Lands*

    C. *Poetry for Rainy Days*

    D. *Summertime*

11. The best person to recommend this poem to would be someone who

    A. has traveled a great deal.

    B. reads a great deal.

    C. wants to be an actor.

    D. has a large home.

Directions: Read the selection and answer the questions.

The largest icebergs are found in Antarctic waters where they break off from the continental ice shelf and drift for years around the Antarctic continent.

One such iceberg, called Trolltunga, was tracked by satellite from 1967 to 1978. At its beginning in the Weddell Sea, it was over 60 miles long and 3,000 square miles in area.

It finally drifted into the South Atlantic, broke into small bits and was lost from sight.

But Trolltunga is not the largest berg on record.

The Coast Guard icebreaker *Glacier* measured an Antarctic iceberg that was 208 miles long and 60 miles wide with an area of 12,480 square miles, larger than the state of Maryland. On land it would have stretched from Washington, D.C., to New York City.

Antarctic icebergs can be 200 feet above the water's surface and extend 1,000 feet or more underwater. Antarctic icebergs are not a danger to ships except in the Cook Strait south of Cape Horn where the passage between Antarctica and South America is fairly narrow.

Most Arctic icebergs calve, or break off, from glaciers in northern Greenland. Then they float south into the North Atlantic driven by wind and ocean currents.

A small iceberg caused one of the greatest maritime disasters of all time, the sinking of the *Titanic* on April 15, 1912.

Then the world's largest liner, the *Titanic* was steaming through the night sea on her maiden voyage from England to America when the captain failed to heed iceberg warnings and the ship hit the iceberg.

In all, 1,490 persons lost their lives because there weren't enough lifeboats on board. Only 711 people survived.

As a result of the disaster, the International Ice Patrol was formed, with the U.S. Coast Guard given the job of patrolling the North Atlantic for dangerous icebergs.

About 15 years ago there was talk of towing icebergs, which are made of fresh water, to New Zealand and Chile and even as far as Saudi Arabia to use them as a source of water.

It was thought that powerful tugboats could be used to tow these immense mountains of frozen fresh water to dry areas near the sea. The idea was shelved before any action was taken.

Scientists have found that the glacier ice of icebergs contains valuable information. For example, ancient air bubbles trapped in the ice are studied. This allows scientists to find out what the air was like before human beings began contaminating the atmosphere.

"Icebergs" from *Dolphin Log*, November, 1989

12. Which of these sentences best summarizes this selection?

    A. Collision with an iceberg was responsible for the sinking of the *Titanic*.

    B. Icebergs are enormous pieces of ice that are among the biggest moving things on Earth.

    C. Many icebergs are found floating in the North Atlantic Ocean.

    D. Scientists frequently study icebergs to find clues to the distant past of the Earth.

13. According to this selection, what was one result of the sinking of the *Titanic*?

    A. Ocean liners no longer sail the North Atlantic.

    B. The U.S. Coast Guard was given a new duty.

    C. Ships are furnished with special equipment to spot icebergs.

    D. More lifeboats are placed on board oceangoing ships.

14. Write your answer to the following in your **Answer Booklet**.

    What is the first feature of icebergs discussed in the selection? Do you think this organization is good for the selection? Explain your answer.

15. What benefit might icebergs offer?

    A. They can change the climate.

    B. They afford a special means of travel.

    C. They could be a source of fresh water to dry countries.

    D. They cause ocean currents to change direction.

16. According to the selection, why might scientists study icebergs?

    A. Icebergs provide clues to the past.

    B. Icebergs are a hazard to human life.

    C. Icebergs show what life is like in frozen regions.

    D. Icebergs indicate the range of temperatures in the world.

17. Which of these books would be most likely to give more information about the ideas presented in the selection?

    A. *Beneath the Sea*

    B. *The Waters of Antarctica*

    C. *Sailing Ships of Long Ago*

    D. *Duty at Sea*

18. Write your answer to the following in your **Answer Booklet**.

    When people want to get across the idea that there is more to something than one can see they sometimes say "It's only the tip of the iceberg." How can facts from the selection help to explain this saying?

Stop

Do not turn the page.

Mathematics

1. An Olympic-sized swimming pool is 50 m long. If you wanted to swim 1 km in a pool this size, how many laps would you have to swim?

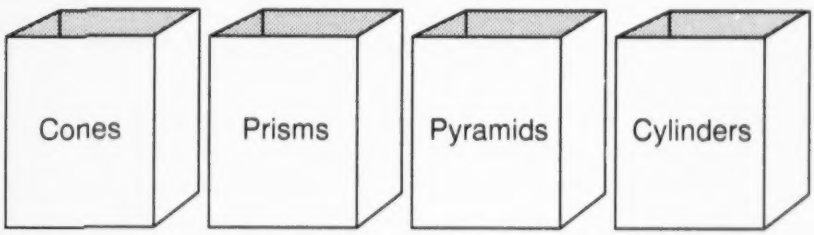
   A. 2 laps

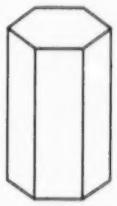
   B. 20 laps

   C. 200 laps

   D. 2,000 laps

2. Darla is sorting her building blocks into one of four boxes pictured below.





Into which box should she place this building block?

A. Cones

B. Prisms

C. Pyramids

D. Cylinders

3. Suppose you write **all** the letters of the word *PROBABILITY* on individual cards and place them in a bag. If you take a card from the bag without looking, what is the probability of picking a card with the letter *B*?

   A. $\frac{1}{5}$

   B. $\frac{1}{10}$

   C. $\frac{1}{11}$

   D. $\frac{2}{11}$

4. Navin wants to make a small walkway between the house and the garage, using red and white bricks of the same size. He wants to use 32 bricks in all, 8 red and 24 white. What fraction of the bricks will be red?

   A. $\frac{2}{6}$ or $\frac{1}{3}$

   B. $\frac{6}{8}$ or $\frac{3}{4}$

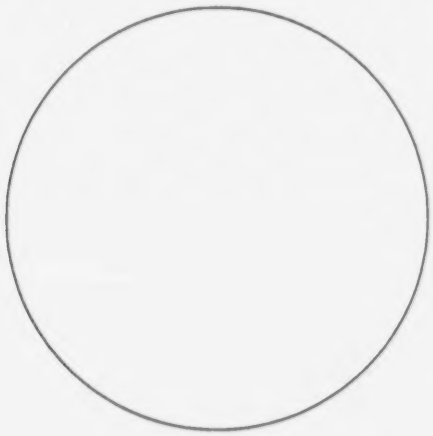
   C. $\frac{4}{12}$ or $\frac{1}{3}$

   D. $\frac{4}{16}$ or $\frac{1}{4}$

5. The students in Mrs. Baylor's classroom took a survey to see which sport was their favorite. The following shows the percentage of students that chose each sport as their favorite.

Favorite Sport	
Baseball	25%
Basketball	50%
Football	10%
Soccer	15%

In your **Answer Booklet**, make a circle graph to show the results of the class survey. Be sure to label your circle graph and give it a title.



6. Tim has $700 in his savings account and $650 in his checking account (in which he does not get interest). He deposits $50 from each paycheck into his savings account. If he deposits $100 into his checking account every other month, how many years will it take him to save $20,000 in his checking account?

   Identify the unnecessary information in the problem.

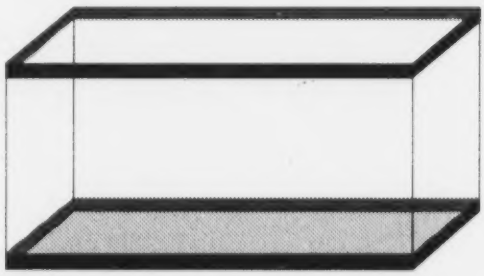
   A. Tim has $650 in his checking account.

   B. Tim wants to save $20,000 in his checking account.

   C. Tim deposits $50 from each paycheck into his savings account.

   D. Tim deposits $100 into his checking account every other month.

7. Amy is planning to buy a new fish tank for her goldfish. She learns that a good fish tank has the greatest surface area at the top to provide the most oxygen for the fish. Look at the lengths and widths of different fish tanks below. Which fish tank has the greatest surface area on top?



   A. Tank A has a length of 23 in. and a width of 17 in.

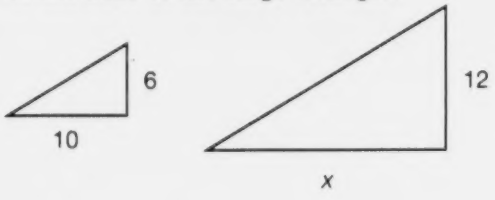
   B. Tank B has a length of 24 in. and a width of 12 in.

   C. Tank C has a length of 26 in. and a width of 10 in.

   D. Tank D has a length of 28 in. and a width of 11 in.

8. Look at the figure in your **Answer Booklet**. Draw a reflection of the figure on the other side of the line of reflection (dark line).

9. The lengths of the sides of the triangles are proportional. What is the length of the base of the large triangle?



A. 16

B. 18

C. 20

D. 24

10. You are saving your money in the bank to buy a coat for $110. You have $45 in the bank already and you put in another $20 you received for your birthday. You also plan to add your weekly allowance of $5 to your savings. You do the calculations below and conclude it will take 35 weeks to save enough money for the coat.

Look at the steps. Do any of these steps contain an error? If so, which one?

(A)	**(B)**	**(C)**
$45	$110	$175 ÷ $5 = 35
+ 20	+ 65	
$65	$175	

A. You should have subtracted in step A.

B. You should have subtracted in step B.

C. You should have multiplied in step C.

D. All three steps were done correctly.

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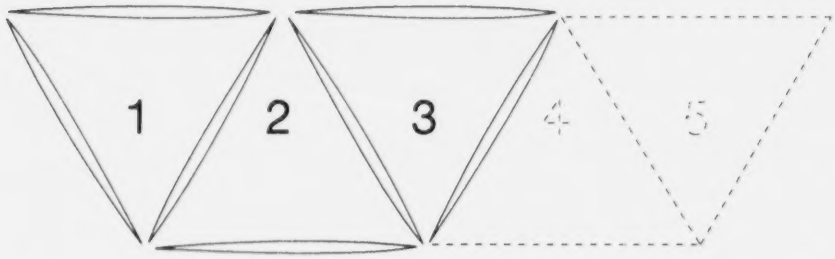
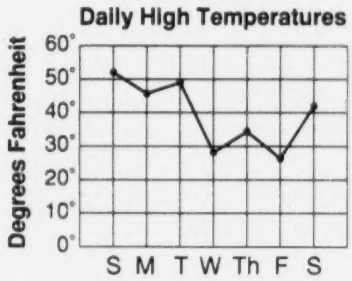
11. In the picture below, the toothpicks form triangles. Continue the pattern in the picture. Look at the chart in your **Answer Booklet**. Complete the chart to show the number of toothpicks it takes to make 1, 2, 3, 4, 5, 6, and 7 triangles. Explain the rule you can use to find how many toothpicks are needed to make any given number of triangles. Write your explanation in the **Answer Booklet**.



12. Look at the line graph below. The greatest difference in daily high temperatures occurred between which two consecutive days?



A. Between Tuesday and Wednesday

B. Between Monday and Tuesday

C. Between Friday and Saturday

D. Between Sunday and Monday

13. An electronics store is having a sale. Look at the sale advertisement below. You want to buy a CD (compact disc), three video tapes, and an AM/FM pocket radio. **Estimate** about how much money these items will cost before taxes.

A. $29

B. $34

C. $39

D. $41

14. Which expression shows how the distributive property can be used to multiply the following numbers?

8 × 7.63

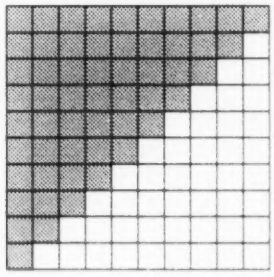
A. 8 + (7 + .63)

B. .63 (8 × 7)

C. 8 × 7 × .63

D. 8 × (7 + .63)

15. In your **Answer Booklet**, write a fraction and a decimal to show what part of the grid below is shaded.



16. To make the finals in the long jump competition, Kiko had to do a long jump that was at least 6 feet $6\frac{3}{4}$ inches long. Which of her jumps qualified her for the finals?

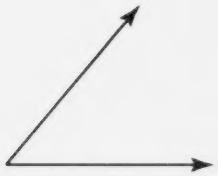
A. 6 ft. $6\frac{1}{2}$ in.

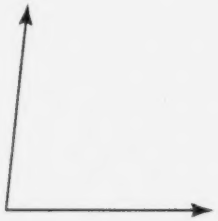
B. 6 ft. $6\frac{6}{16}$ in.

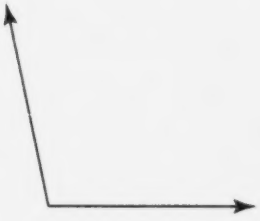
C. 6 ft. $6\frac{7}{8}$ in.

D. 6 ft. $6\frac{9}{16}$ in.

17. Ramón is building a doghouse. He wants the roof of the doghouse to be at an angle that is more than 90° but less than 110°. Which angle below could he use for the roof?

A. 

B. 

C. 

D.

31

18. The science club took a survey to see how many hours each member in the club worked on a science project. The table below shows the results of the survey. What is the mean (average) number of hours the students worked on the science project?

Number of Hours Students Worked on a Science Project

Students	Hrs.
Greta	25
Juan	14
Mika	20
Paulo	18
Su-Lin	16
Tanika	31
Darnell	33
Wesley	27

A. 16

B. 20

C. 23

D. 182

19. A family of facts is a set of addition and subtraction facts or multiplication and division facts that use the same numbers. In your **Answer Booklet**, write two equations that show facts related to the one below.

$12 - n = 8$

20. Read the problem.

Mr. Wright is planning to teach five self-defense classes, one class each day. On Monday, Wednesday, and Friday, he can have 20 students in each beginner's class. On Tuesday and Thursday, he can have 10 students in each advanced class. What is the total number of students Mr. Wright can enroll in all five classes?

Choose the expression that will help you solve the problem.

A. $20(3 + 2) =$

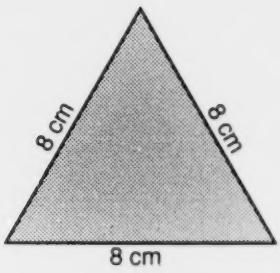
B. $3(20 + 10) =$

C. $5(20) + 5(10) =$

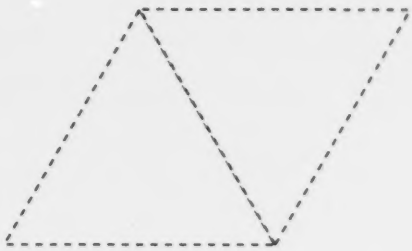
D. $3(20) + 2(10) =$

21. For an art project, Ming cut different shapes out of felt and made a design with the shapes. It took two large triangles to make the shape shown by the dotted lines. How many small triangles would it take to make the shape formed by the dotted lines?

small triangle



large triangle


Ming's Design

A. 4

B. 6

C. 8

D. 10

22. When Bill pressed the following keys on his calculator,

the display showed the answer of 0.5.

What number will Bill see on the display when he presses the following keys on his calculator?

A. 29

B. 30

C. 32

D. 77

23. A girl between the ages of 11 and 14 needs about 2,200 calories daily. If a 13-year-old girl ate all the food listed in the table below, **estimate** how many more calories she would need that day. In the **Answer Booklet**, show or explain how you estimated your answer.

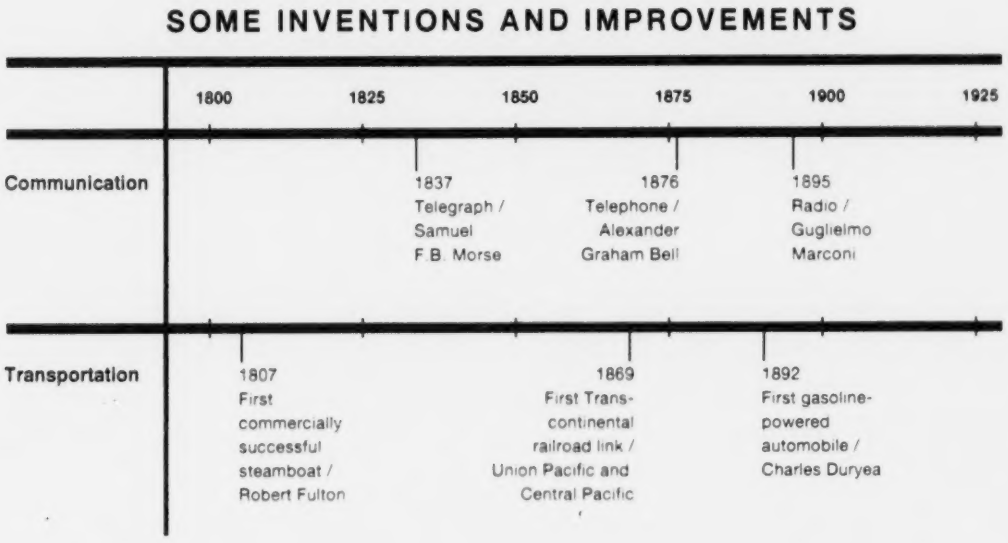
Food	Calories
Hamburger with bun	585
Spinach (1 cup)	45
Garden salad	46
Salad dressing	168
White bread (1 slice)	70
Milk (2 glasses)	183
Cereal	192

Stop

Do not turn the page.

Citizenship

Directions: Use the time line below to answer number 1.



1. Which of the following pairs of events would fit in with the topics of this time line?

   A. Sewing machine / Elias Howe (1846) and Vacuum cleaner / Ives McGaffey (1869)

   B. Barbed wire / Joseph E. Glidden (1873) and Liquid-fueled rocket / Robert Goddard (1926)

   C. Cotton gin / Eli Whitney (1793) and Passenger elevator with safety device / Elisha G. Otis (1852)

   D. First heavier-than-air flight / Orville and Wilbur Wright (1903) and Typewriter / Christopher Sholes and Carlos Glidden (1867)

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2. The United States imports large amounts of oil from Kuwait and other Middle East countries. Which of the following statements explains the need for contacts between the people of the United States and Kuwait?

   A. The United States uses more oil than it produces.

   B. The United States uses less oil than it produces.

   C. The Middle East uses more oil than it produces.

   D. Kuwait uses more oil than it produces.

3. Many businesses and offices in the United States are closed on Sundays. Most businesses and offices in Israel are closed on Saturday for a similar reason. Why are many businesses and offices in both the United States and Israel closed one day a week?

   A. Both countries follow a Muslim tradition of Saturday being the day of rest.

   B. The United States follows many Jewish traditions and Israel follows many Christian traditions.

   C. Since Israel is in a time zone that is twenty-four hours ahead of the United States, it closes on Saturday.

   D. The United States follows a Christian tradition of Sunday being the day of rest, and Israel follows a Jewish tradition of Saturday being the day of rest.

4. Write your answer to the following in your **Answer Booklet**.

   A king rules a country. He inherited his position from his mother. These characteristics are typical of a monarchy. Complete the chart by describing one characteristic for each of the other two types of government.

Directions: Use the map below to answer number 5.

5. In which Canadian province or territory would you be if you traveled to 55° north latitude and 115° west longitude?

   A. Alberta

   B. Manitoba

   C. Saskatchewan

   D. British Columbia

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Directions: Read the following paragraph to answer number 6.

A group of Americans calls for a limit to the number of terms that government officials are allowed to serve. The group feels that when people are in office too long, they begin to forget about the average citizen. Also, the longer a person remains in office, the harder it usually is for a new candidate for that office to be successful.

6. Which of the following statements supports the main idea of this group?

   A. The salaries of elected officials are much too high.

   B. Many elected officials are performing their jobs well.

   C. Officials who serve many terms have the experience it takes to be good leaders.

   D. Once elected, an official often has an unfair advantage over rival candidates.

7. Maria wants to buy a computer. At present, only one company makes the computer with the features she wants. Computer magazines say that other companies will be coming out with similar models in a few months. If Maria wants to get her computer at the best price, when should she buy it?

   A. Right now

   B. Whenever she has enough money

   C. When similar computers become available

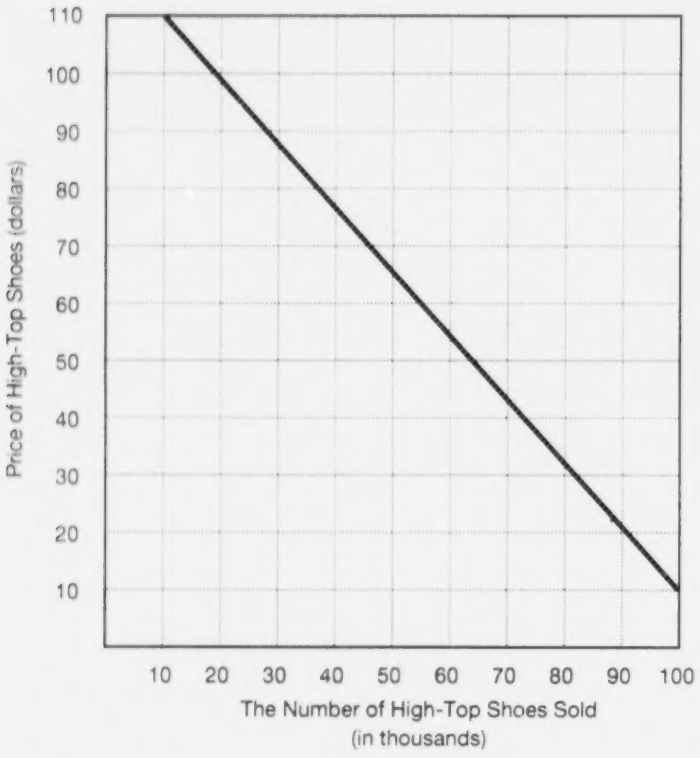
   D. Shortly before the other companies offer similar models

Directions: Read the following paragraph to answer number 8.

The clothing that people wear shows adaptation or adjustment to their surroundings. An example of this is that Native Americans wore different kinds of foot coverings. Woodland Indians from eastern forested lands wore soft-soled moccasins and Southwestern Indians from rocky and sandy areas wore thicker-soled moccasins.

8. How were the two types of moccasins suitable for the two different kinds of surroundings? Write your answer in your **Answer Booklet**.

Directions: Use the graph below to answer number 9.



9. What happens to the number of high-top shoes sold as the price of the shoes decreases?

A. More are sold.

B. Fewer are sold.

C. The same number are sold.

D. The price has nothing to do with how many are sold.

10. Listening to lawyers present their cases in court in order to decide a legal issue is an activity related to which branch or branches of government?

    A. Administrative
    B. Legislative
    C. Executive
    D. Judicial

11. Greece is a country where voting in national elections is required by law. Since practically everyone votes anyway, what is a good way to get your candidate elected?

    A. Convince people not to vote
    B. Campaign for your candidate
    C. Make posters urging people to get out and vote
    D. Make telephone calls supporting the other candidate

Directions: Read the following paragraph to answer number 12.

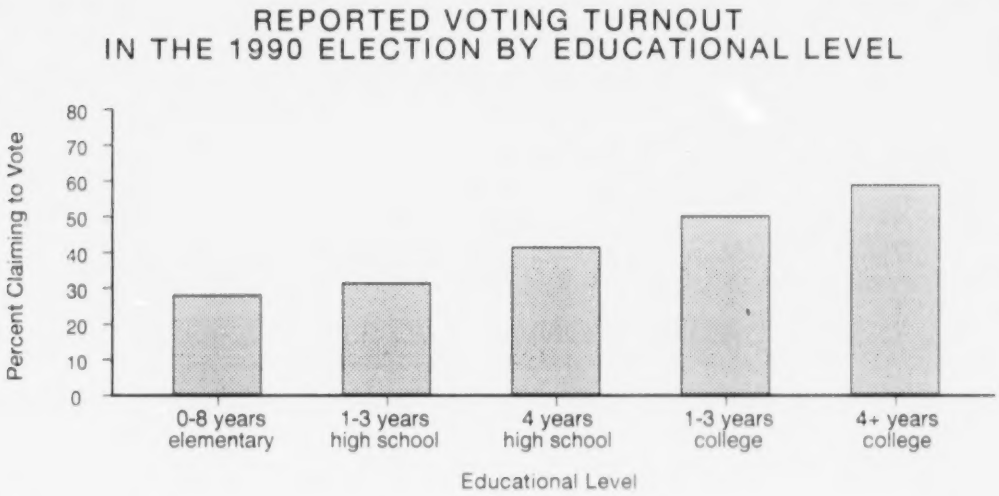
When she was a young woman, Eleanor Roosevelt worked in a New York settlement house. Before the 19th Amendment was passed in 1920, she was a supporter of women's right to vote. As wife of President Franklin D. Roosevelt, Eleanor Roosevelt fought for equal rights for minority groups and worked for young people and the underprivileged. After the President's death (1945), she was the first chairperson of the United Nations' Human Rights Commission and helped draft the Universal Declaration of Human Rights.

12. Write your answer to the following in your **Answer Booklet**.

    (a) Choose two of these or other reforms worked for by Eleanor Roosevelt and tell how each has affected the lives of Americans today.

    (b) Name another American woman and identify a contribution to American society made by that person.

Directions: Use the graph below to answer number 13.



13. What can you interpret about voting in the United States from the graph?

A. All citizens who have attended school exercise their right to vote.

B. Education affects how people view the responsibility to vote.

C. The right to vote is guaranteed by the U.S. Constitution.

D. Elected representatives are chosen by all Americans.

14. When George Washington retired from the Presidency of the United States, he wrote that the United States should stay away from making permanent or long-lasting partnerships with foreign countries. He thought that the United States could better protect itself by not getting mixed up in the quarrels of other countries. What was George Washington's concern?

A. American people would refuse to defend their country.

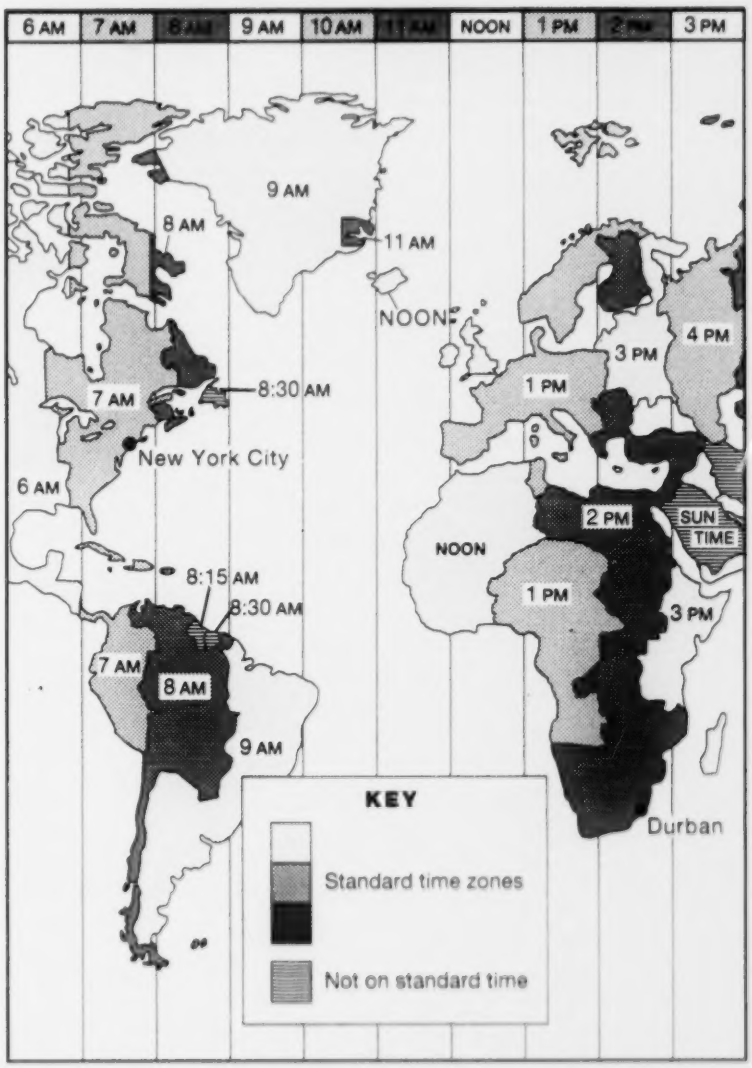
B. Our new nation would get into war with another country.

C. Our nation would get deeply in debt with another country.

D. Many people from other countries would rush to live here.

Directions: Use the map below to answer number 15.

STANDARD TIME ZONES



15. Willem lives in Durban, South Africa and wants to speak with his publisher who lives in New York City. The publisher needs to get Willem's call around 3:00 p.m. Why should Willem phone his publisher at 10 p.m. Durban time? Write your answer in your **Answer Booklet**.

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Directions: Read the following paragraph to answer number 16.

Marie Curie and her husband, Pierre Curie, did some of the earliest work with radioactive elements. They discovered the elements which they named radium and polonium. After her husband's sudden death, Marie devoted all her time to completing their important research. She worked on the use of radium in X-rays, particularly in the treatment of wounded soldiers in World War I.

16. Why was Marie Curie's work important?

A. She did it during World War I.

B. She spent most of her time on her work.

C. She named the elements radium and polonium.

D. She helped open the field of radioactive research.

17. Paul Garcia has invested much of his savings in a compact disc store. He hired two people to help do the work, but Paul will also work in the store. What two factors of production does Paul represent?

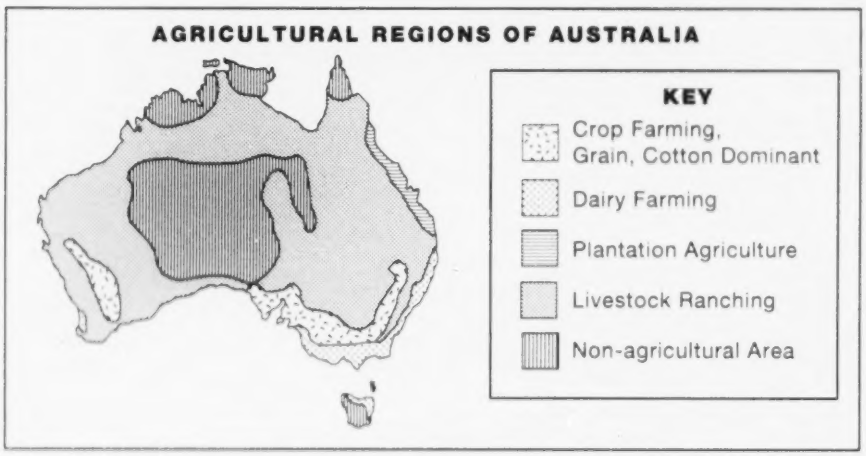
A. Land and labor

B. Capital and labor

C. Labor and entrepreneurship

D. Entrepreneurship and capital

Directions: Use the maps below to answer number 18.



18. In which two agricultural regions are most of the cities located?

A. Crop farming or livestock ranching
B. Non-agricultural or dairy farming
C. Plantation or non-agricultural
D. Dairy or plantation farming

Directions: Read the following paragraph to answer number 19.

There are a lot of senior citizens in the community and they pay taxes, but there are no services or special activities for them. Seniors in the community feel that they have been forgotten by the park district board of commissioners. The five members of the board have not paid any attention to them. The seniors hold a meeting and decide that they want to get some special activities started that are geared to them. Some suggested ways to reach their goal are:

- March outside the board office
- Stop going to any park district activities
- Work to elect their own candidates to the board

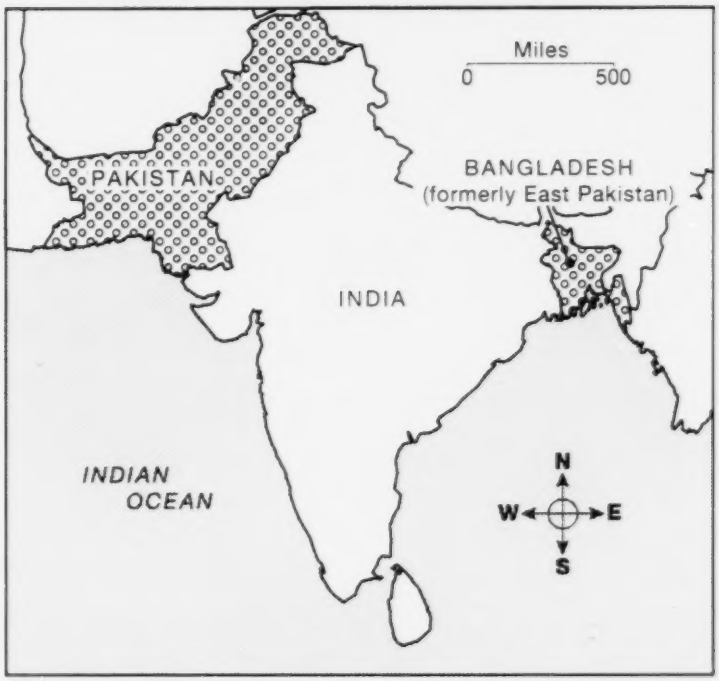
19. Write your answer to the following in your **Answer Booklet**.

(a) Explain which way would get the senior citizens immediate attention.

(b) Explain which way would get the senior citizens long-lasting results.

Directions: Use the map below to answer number 20.

PAKISTAN AND BANGLADESH



20. From 1947 to 1971, Bangladesh was part of Pakistan. Most people in Bangladesh are Bengali and speak Bengali or English. Most people in Pakistan are Punjabi and speak Urdu, English, or Punjabi. Besides the fact that they have different cultures, what else made it difficult for the two parts of Pakistan to stay united?

A. They both needed a seaport.

B. Neither liked being India's neighbor.

C. They were separated by about 1,000 miles.

D. Neither could communicate with the other.

21. People from many countries have shaped life in the United States. For which of the following features of American society are immigrants from England mainly responsible?

A. Food

B. Music

C. Roads

D. Language

22. In today's mail, there is a bill for something you did not buy. You phone the department store to straighten it out. Which of the following would be the fair way for the department store to settle the matter?

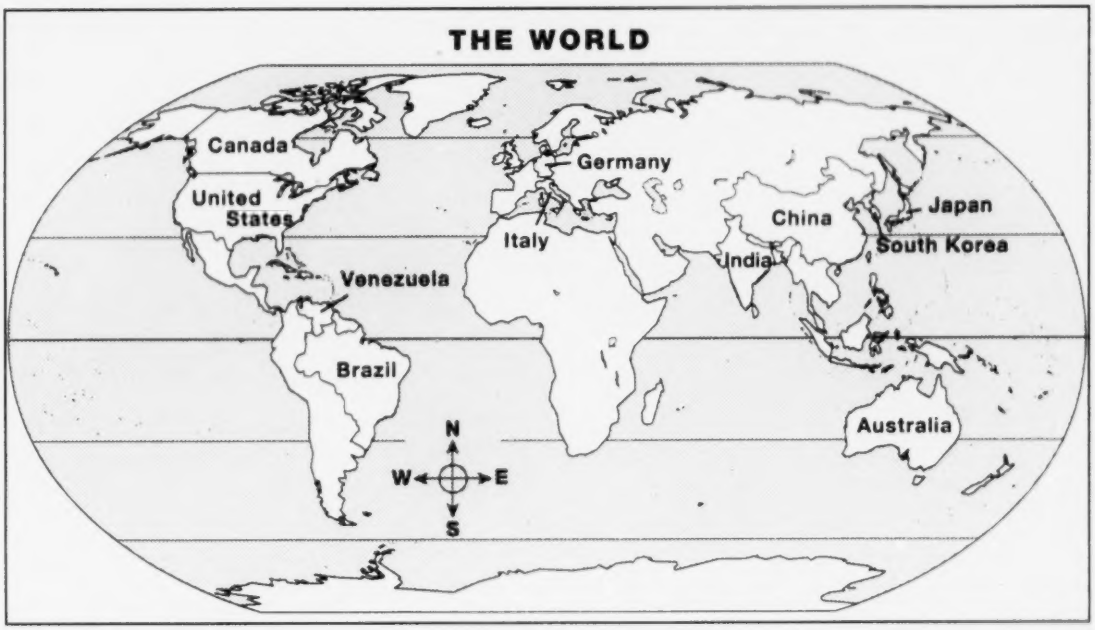
A. Cancel your charge account so there will not be any future problems

B. Send the matter to a bill collector so the bill collector can make you pay

C. Inform you that the charge is in the computer and you must pay the bill

D. Have someone at the store carefully check the records and get back to you soon

Directions: Use the map and tables below to answer number 23.



LEADING IRON ORE-PRODUCING COUNTRIES, 1992	LEADING STEEL-PRODUCING COUNTRIES, 1992
Brazil	Japan
China	United States
United States	China
Australia	Germany
India	South Korea
Canada	Canada
Venezuela	Italy

23. Iron ore is the basic mineral resource for making steel. Give two reasons why the United States imports iron ore from Venezuela. Write your answer in your **Answer Booklet**.

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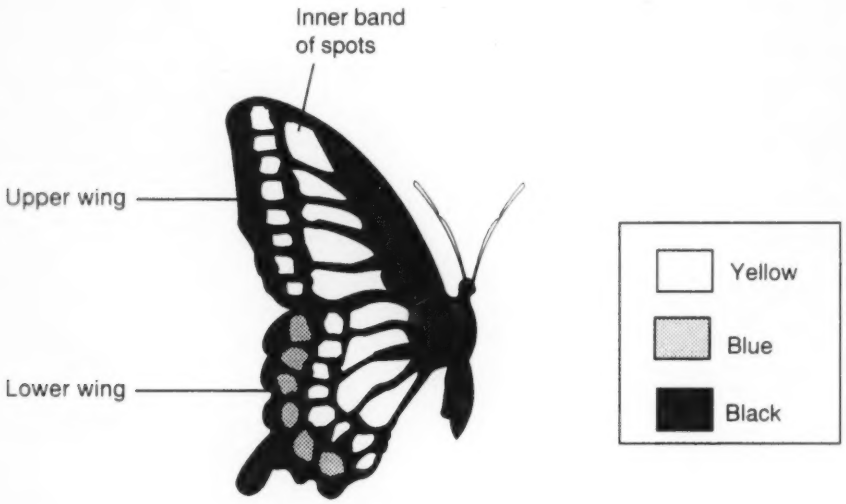
Stop

Do not turn the page.

Science

1. Below is a picture of an unidentified butterfly. Use the following key to identify which butterfly is pictured.



#1. Upper and lower wing each have 2 bands of yellow spots . . . . . go to #2
Upper and lower wing do not each have 2 bands of yellow spots. . . . . go to #3

#2. Inner band of yellow spots is narrow . . . . . go to #4
Inner band of yellow spots is wide. . . . . go to #5

#3. Has no band of yellow spots on upper wing. . . . . Pipe Vine Swallowtail
Has 1 band of yellow spots on upper wing . . . . . Spicebush Swallowtail

#4. Has a band of blue spots on lower wing . . . . . Black Swallowtail
Has no band of blue spots on lower wing . . . . . Palamedes Swallowtail

#5. Has a band of blue spots on lower wing . . . . . Old World Swallowtail
Has no band of blue spots on lower wing. . . . . Giant Swallowtail

Which of the following butterflies is pictured above?

A. Black Swallowtail

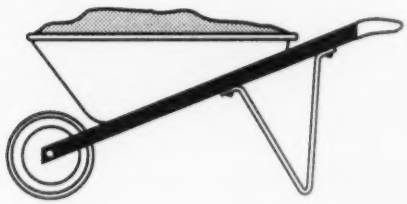
B. Giant Swallowtail

C. Old World Swallowtail

D. Palamedes Swallowtail

51

2. Miguel's father asks him to move a wheelbarrow full of sand to their swingset.



The sand in the wheelbarrow weighs more than Miguel, yet Miguel can move the wheelbarrow without difficulty. Why is this?

A. The handles of the wheelbarrow spread the weight out over a larger area.

B. Lifting the handles puts most of the weight onto the wheelbarrow's wheel.

C. Putting the sand up into the wheelbarrow decreases the force of gravity of the sand.

D. Hot air from the ground pushes up against the wheelbarrow and carries some of the load.

3. Warren completely burned a log that weighed 10 kilograms. When he collected the ashes and weighed them, they weighed only 1.4 kilograms. Which of the following explains this difference in weight?

A. About 8.6 kilograms of wood was transformed into heat energy.

B. About 8.6 kilograms of wood was transformed into kinetic energy.

C. About 8.6 kilograms of wood was transformed into electromagnetic energy.

D. About 8.6 kilograms of wood was changed into soot, water vapor, and smoke (CO_2 and other gases).

4. The destruction of rain forests often occurs through what is called "slash and burn" agriculture. This means that trees are cut down and burned, and the land is then used for growing short-term crops or for raising cattle.

   In your **Answer Booklet**, tell two results of "slash and burn" agriculture that can affect the cycles of oxygen and carbon dioxide in the air. *Explain your answers.*

5. Scientists use a chemical called **silver nitrate** to find out if chlorine is present in a liquid. Silver nitrate is added to a sample of liquid. If chlorine is present, the liquid turns milky white. If no chlorine is present, the liquid stays the same color.

   Look at the chart below.

Sample	Original Color	Color After Silver Nitrate
A	clear	milky white
B	clear	clear
C	clear	pale white
D	light green	light green

Which of the following could you conclude ***for sure*** about the presence of chlorine in the samples?

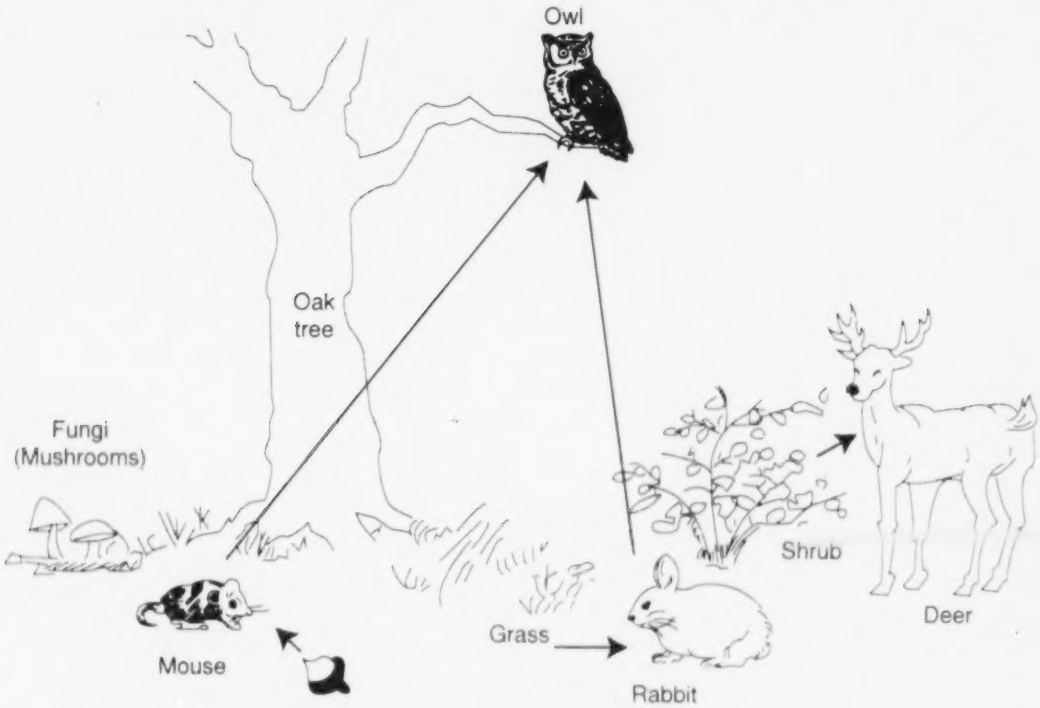
A. D does not contain chlorine.

B. A and B both contain chlorine.

C. C contains more chlorine than A.

D. B contains more chlorine than C.

6. A primary consumer feeds on plants. A secondary consumer feeds on plant-eating animals. Look at the picture below of a food web.



Which of the following pairs are primary consumers?

A. Owl, mouse

B. Mouse, deer

C. Acorn, rabbit

D. Oak tree, fungus

7. A Venus flytrap plant traps and digests an insect. The seed of a certain plant sprouts only after passing through an elephant's digestive system and being excreted in its wastes.

   What basic need are both these plants meeting?

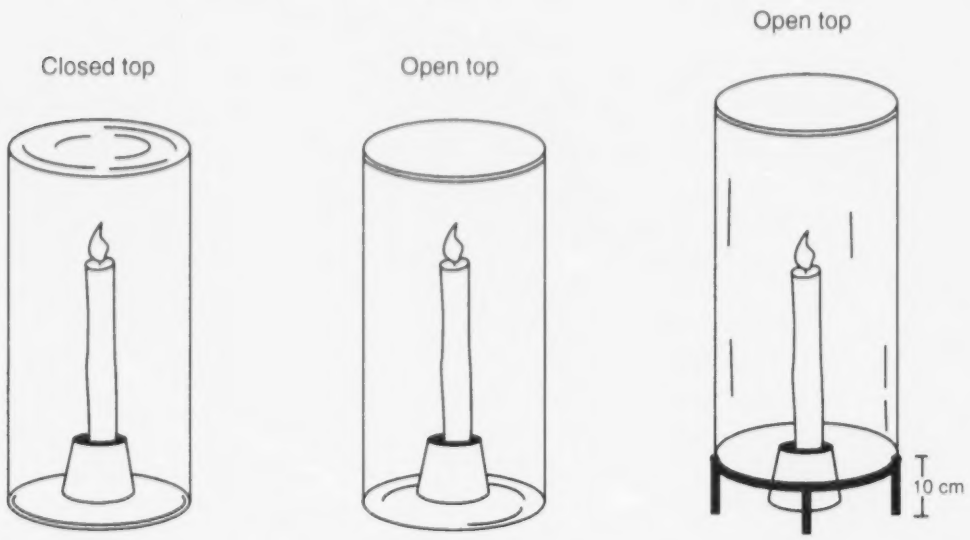
   A. Eliminating harmful wastes

   B. Obtaining nutrients for growth

   C. Reproducing plants like themselves

   D. Protecting themselves from predators

8. Students set up an experiment with three identical candles. Candle A was lit and placed under a glass. Candle B was lit and placed in the bottom of a glass. Candle C was lit and an open glass cylinder was placed over it, so that the bottom edge of the cylinder was 10 cm higher than the bottom edge of the candle.



   In your **Answer Booklet**, tell which candle burned for the longest time. For each of the other candles, give one reason why they did not burn as long.

9. After harvesting crops such as corn and wheat, many farmers plant a second crop called a **cover crop.** A cover crop grows during the fall and winter and is then plowed over in the spring.

   What is the most likely reason that cover crops are planted?

   A. To prevent erosion of the topsoil by wind and water

   B. To encourage water runoff into all parts of the field

   C. To provide food for birds and small animals during the winter

   D. To remove minerals from the soil that might harm new crops in the spring

10. An environmental impact statement is a report used to evaluate negative impacts that a project might have on the environment.

    Which of the following would be examined in the environmental impact statement prepared on a waste incinerator that would be near a large city?

    A. The number of new jobs that would be created by the incinerator

    B. The expected savings to the average city person per ton of trash burned

    C. The amount and kind of substances that would be released into the air from the incinerator

    D. The possible ways the city might change the direction that the wind blows, so that smoke or air released from the incinerator would not go over the city

11. Which of the following describes how hawks and foxes are alike and different in their hunting habits?

    A. Both hunt birds, but only foxes feed dead birds to their young.

    B. Both hunt rabbits, but hawks find rabbits by smell and foxes by sight.

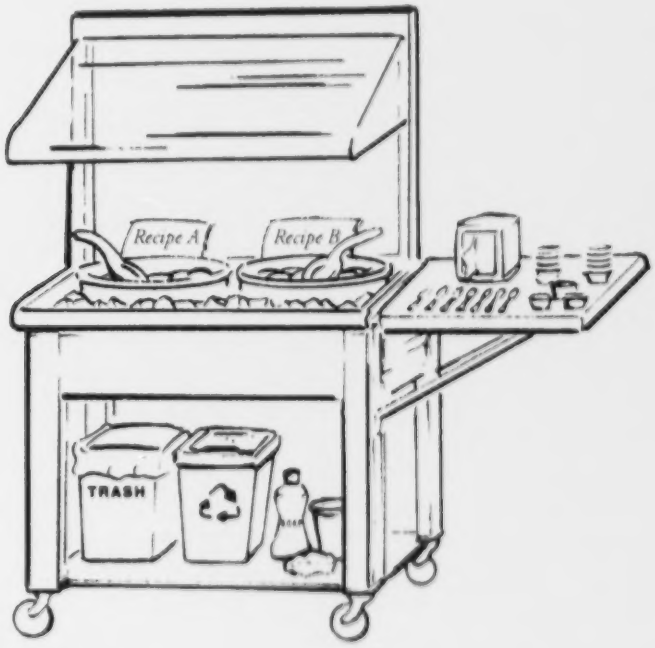
    C. Both hunt mice, but hawks locate mice by sight and foxes mostly by sound or smell.

    D. Both hunt mostly at night, but only foxes will hunt creatures heavier than themselves.

12. Vogt's Potato Salad Company has two new recipes for potato salad. The company is setting up stands in grocery stores to test which recipe people like better. Company servers will give people free samples of both recipes and record which recipe people prefer.

    The company has taken many precautions to make sure their test is ***safe.*** Below are a stand and a server, with all the materials needed for the test.

Server with
- notebook and pencils
- hair cap
- plastic gloves

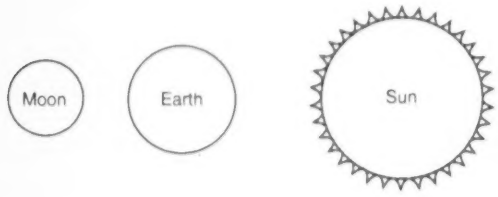


Movable stand with
- plastic roof
- ice
- containers with separate serving spoons
- paper napkins, recyclable plastic spoons, and disposable paper cups
- trash container and cleaning supplies

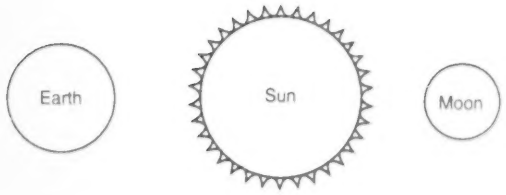
In your **Answer Booklet**, identify **two** items from the illustration that help make the test safe. Tell what each thing does to make the test safe.

13. Which of the following diagrams shows the correct arrangement of the sun, moon, and earth during a solar eclipse?

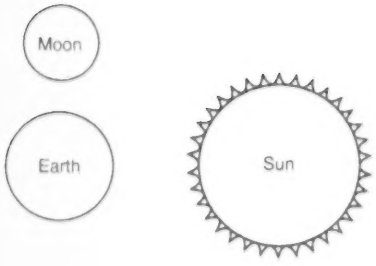
A.



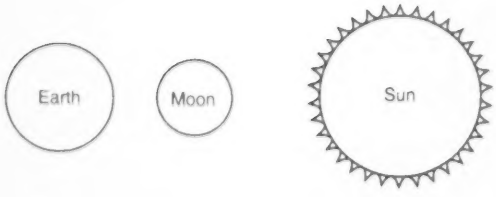
B.



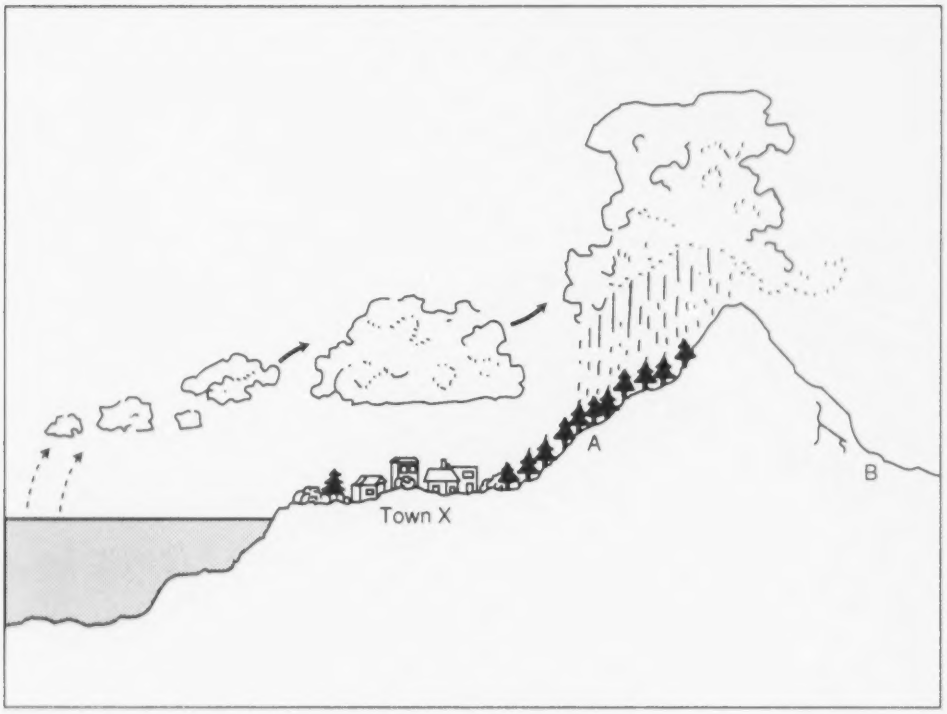
C.



D.



Study the diagram below to help you answer the following 3 questions (14, 15, and 16).



14. Air that is rising over a mountain tends to form clouds. Precipitation in the form of rain or snow is likely to occur before clouds pass over the mountain.

Which of the following usually causes this cloud formation and precipitation?

A. The air gets colder as it rises higher.

B. The speed at which the air is traveling increases.

C. The air gains heat from sunlight reflected off the mountain.

D. The pressure increases as air moves up, forcing moisture out of the clouds.

15. Which of the following can definitely be used to distinguish the soil found at point A from the soil found at point B?

    A. The soil found at point B holds moisture longer than soil found at point A.

    B. The soil found at point A is made of larger particles than the soil found at point B.

    C. The soil found at point A has a higher concentration of salt than the soil found at point B.

    D. The soil found at point A has more plant matter and bacteria than the soil found at point B.

16. Think about how cutting down all the trees above point A would affect the forest land and the river that runs through it.

    In your **Answer Booklet**, tell one impact that cutting down all the trees would likely have on the environment in and around Town X. Explain why the loss of trees would have this effect.

17. A certain viral disease can be transmitted through the air. In each of the groups below, one person is sick with the disease. In which group are ***all*** the other individuals exposed to the disease?

    A. People working in the same building

    B. People riding to work in the same car

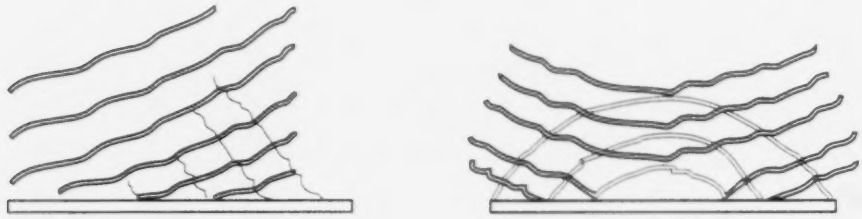
    C. People working for the same company

    D. People riding to work in the same train

18. Below are illustrations of (1) a flashlight beam being reflected off of a mirror, and (2) waves of water being reflected off the side of a swimming pool.

(1)

(2)



What simple property, or characteristic, of reflection is shown by the rays of light and by the waves of water?

A. Both light rays and water waves are always perfectly straight.

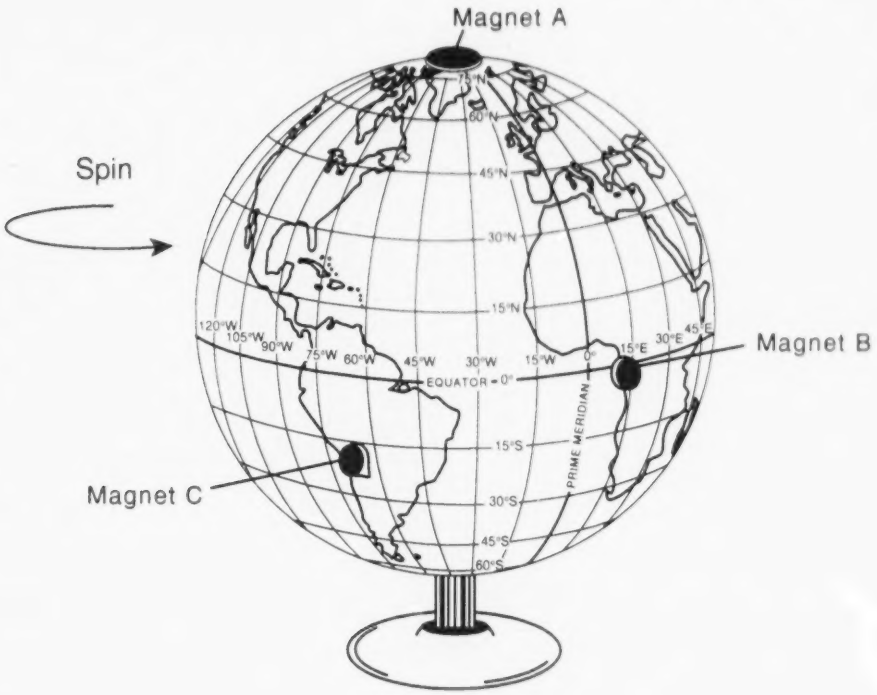
B. The reflected rays or waves never touch unreflected rays or waves.

C. The angle at which they strike a surface is the angle at which they are reflected.

D. Reflections of both light rays and water waves have more energy after being reflected than they had before they were reflected.

19. Judy attaches identical round magnets to different places on a hollow metal globe and then spins the globe until the magnets start coming off. Judy is trying to find out if there is a connection between where she puts the magnets and how easily the magnets can be spun off.

The drawing below shows three places where Judy puts magnets.



In your **Answer Booklet**, predict which of the magnets will come off ***last*** when Judy spins the globe. Give a reason for your answer.

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20. Most water found in nature contains dissolved minerals, dust particles, or bits of soil. Some of these provide basic nutrients for the growth of the smallest plants—single-celled algae.

Which of the following sources of water would contain the smallest number of algae?

A. Rain water

B. Lake water

C. River water

D. Ocean water

21. Tom has a projector that shines red light. When he places a red filter in front of the projector and turns it on, he sees red light pass through the filter. When he places a blue filter or a green filter in front of the projector, no light passes through the filter.

Which of the following is supported by Tom's observations?

A. Red light is absorbed by a red filter.

B. Green light is not absorbed by a red filter.

C. Only blue light passes through a blue filter.

D. Only red light will pass through a red filter.

22. Which of the following is an example of a simple physical change?

A. Closing a door

B. Breaking an egg

C. Turning on an electric light

D. Putting coffee beans into a cupboard

23. Paper and plastics discarded from hospitals are often burned in incinerators. The energy created from burning these materials can be used to produce electricity.

In your **Answer Booklet**, tell one positive effect and one negative effect that burning paper and plastic hospital wastes has on human health.

Stop

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